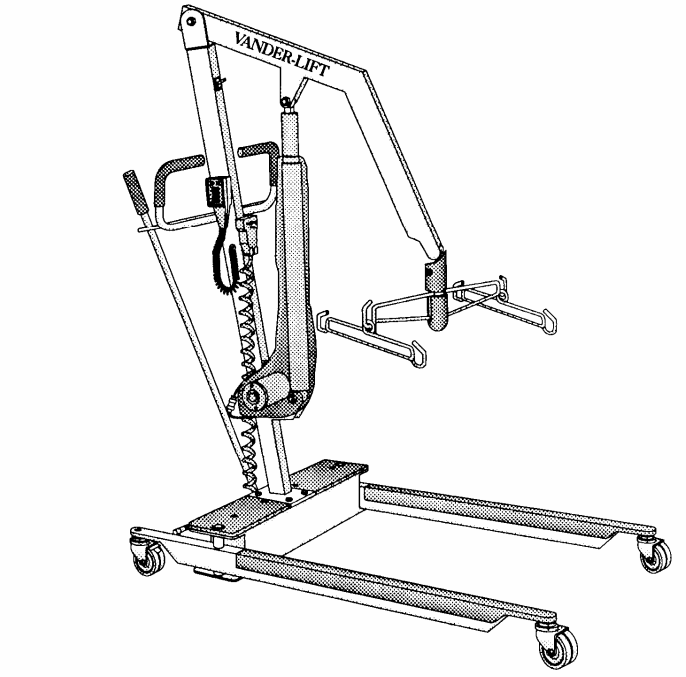
# VANDER-LIFT™

# MODELS 450, 600 & 1000

# MAINTENANCE

# MANUAL

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**ARE MADE IN THE U.S.A.**

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**VANDER-LIFT**
**MODELS 450, 600 * 1000**
**MAINTENANCE MANUAL**

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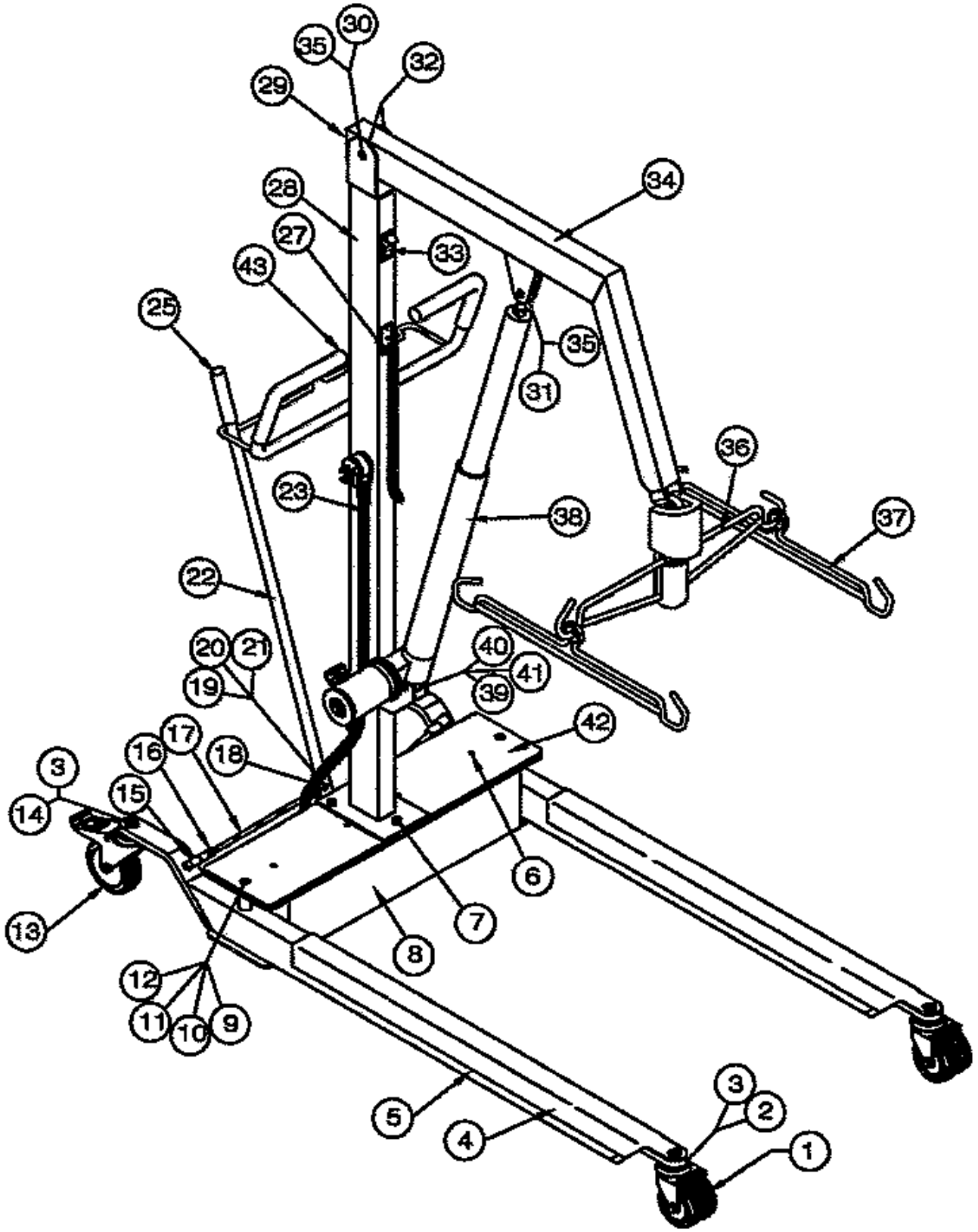
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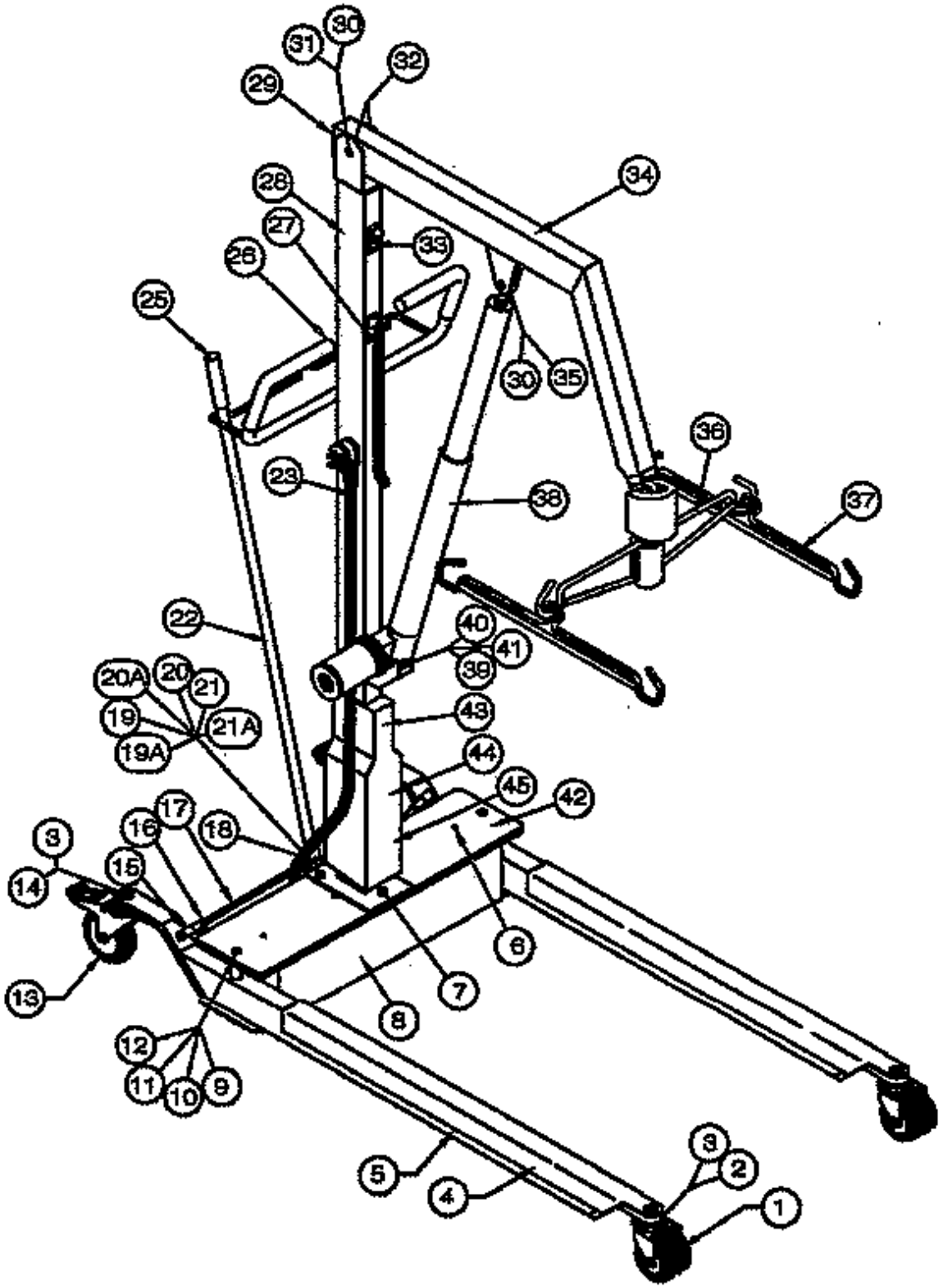
# VANDER 450

# VANDERLIFT 450

| REF # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | MFG-9-523190 | CASTER 3" NON-LOCK | 2 |
| 2 | MFG-9-238120 | 3/8-16X1.25 FH-SH/SS | 2 |
| 3 | MFG-9-263820 | 3/8-16 NYLON LOCKNUT | 4 |
| 4 | MFG-4-900615 | V-L LEG PROTECTORS CLEAR | 2 |
| 5 | MFG-4-100010 | V-L LEG (WHITE) | 2 |
| | MFG-4-200010 | V-L LEG (BLUE) | 2 |
| 6 | MFG-9-225750 | 1/4-20 X 3/4 FH PH | 4 |
| 7 | MFG-9-238100 | 3/8-16 X 1 GR 5 B0LT | 3 |
| 8 | MFG-4-100020 | V-L BASE (WHITE) | 1 |
| | MFG-4-200020 | V-L BASE (BLUE) | 1 |
| *8 | MFG-6-008000 | 24V CONTROL BOARD | 1 |
| *8 | MFG-9-270463 | 4-40X5/8 SH CAP (SS) | 2 |
| *8 | MFG-9-270625 | 6-32X1/4 BH SH (SS) | 2 |
| *8 | MFG-9-270838 | #8-32 X 3/8" PH-PH | 2 |
| *8 | MFG-9-271075 | #1O-24 X 3/4 MS | 1 |
| *8 | MFG-9-290650 | #6 INTERNAL LOCK/WSH | 2 |
| *7 | MFG-9-293807 | 3/8" SPLIT LOCK WASH | 5 |
| *8 | MFG-9-320650 | CORD RESTRAINT | 1 |
| *8 | MFG-9-321510 | BATTERY 12 VOLT | 2 |
| *8 | MFG-9-351600 | JUMPERS (BATTERY) | 1 |
| *8 | MFG-9-386630 | FLAG TERM. .250 | 1 |
| *8 | MFG-9-386710 | RING TERMINAL (BLUE) | 2 |
| *8 | MFG-9-387100 | SPADE CONN-MALE (BL) | 1 |
| *8 | MFG-9-542400 | 1/2" GROMET | 1 |
| *8 | MFG-9-570850 | BATTERY PAD (UPPER) | 1 |
| *8 | MFG-9-570860 | BATTERY PAD (LOWER) | 1 |
| *8 | MFG-9-570870 | BOARD PAD | 1 |
| *8 | SEW-6-000089 | BATTERY STRAPS | 1 |
| 9 | MFG-9-250050 | 1/2-13 X 5 1/4 HH G5-LEG | 2 |
| 10 | MFG-9-295040 | WASHER .040/SS | 2 |
| 11 | MFG-9-295062 | WASHER .062/SS | 2 |
| 12 | MFG-9-265008 | 1/2-13 NYLON JAM NUT | 2 |
| 13 | MFG-9-523120 | CASTER 4" LOCKING | 2 |
| 14 | MFG-9-238153 | 3/8-16X 1.5 FH SH/SS | 2 |
| 15 | MFG-6-583650 | CUT TIE ROD ENDS | 2 |
| 16 | MFG-9-263824 | 3/8-24 N.F. NUT-ZN | 6 |
| 17 | MFG-6-000366 | TIE ROD - CHROMED | 2 |
| 18 | MFG-9-583600 | TIE ROD END | 2 |
| 19 | MFG-9-266311 | LOC NUT 5/8-11 | 1 |
| 20 | MFG-9-592300 | WASHER 5/8" BLK FIBE | 1 |

| REF # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 35 | MFG-6-000350 | INDEX ARM (ZINC) | 1 |
| 22 | MFG-6-573300 | SHIFT BAR (33 3/4") | 1 |
| 23 | MFG-6-000055 | HOSP PLUG W/AC CORD | 1 |
| | | | |
| 25 | MFG-9-633820 | 7/8" END CAP-RUBBER | 3 |
| | | | |
| 27 | MFG-6-008025 | PENDANT SWITCH-CON/B | 1 |
| 28 | MFG-4-100030 | V-L TOWER (WHITE) | 1 |
| | MFG-4-200030 | V-L TOWER (BLUE) | 1 |
| *28 | MFG-9-322039 | VC CORD ASSEM (TAN) | 1 |
| *28 | MFG-9-336450 | E-STOP WIRE HARNESS | 1 |
| *28 | MFG-9-370650 | POWER CORD (MOTOR) | 1 |
| *28 | MFG-9-398956 | WIRE 5&6 MICRO SWTCH | 1 |
| *28 | MFG-9-542400 | 1/2" GROMMET | 5 |
| | | | |
| 31 | MFG-9-250155 | 1/2-20X 1 1/2 HH | 1 |
| 32 | MFG-9-624110 | BRONZE BUSHING 3/4" | 2 |
| 33 | MFG-9-370690 | EMERGENCY STOP SWTCH | 1 |
| 34 | MFG-4-100070 | LIFT ARM (WHITE) | 1 |
| | MFG-4-200070 | LIFT ARM (BLUE) | 1 |
| | | | |
| 35 | MFG-9-265005 | 1/2 -20 JAM NUT | 2 |
| 36 | MFG-4-910130 | COMP/HANGER BAR(GRAY) | 1 |
| 37 | MFG-4-910120 | HANGER ROD COMPLETE | 2 |
| 38 | MFG-4-520151 | ACTUATOR, V-L 24V | 1 |
| *38 | MFG-4-930145 | CRANK - EMERGENCY DN | 1 |
| *38 | MFG-9-370660 | MIC SWITCH/DOOR&LIFT | 1 |
| *38 | SEW-4-900171 | V-L BOOT (BLK) | 1 |
| 39 | MFG-9-238125 | 3/8 X 1 1/4 SH BOLT | 1 |
| 40 | MFG-9-263118 | 5/16-18 HEX NUT | 1 |
| 41 | MFG-9-645500 | HOSE 4 ACT. BUSHING | 1 |
| 42 | MFG-6-000522 | PLASTIC LIDS | 2 |
| * | MFG-9-261024 | #10-24 LOCK NUT | 2 |
| * | MFG-9-672020 | PLASTIC MOUNT-MICRO | 1 |
| * | SEW-6-001048 | SLING/BELT BAG | 1 |
| * | MFG-9-225020 | 3/4 PLASTIC CAPS | 4 |
| 43 | MFG-9-621000 | 1" LOCKING PLUG | 2 |
| * | NOT PICTURED | | |
| | | OPTIONAL | |
| | MFG-4-401200 | IMS HANGING SCALE | 1 |

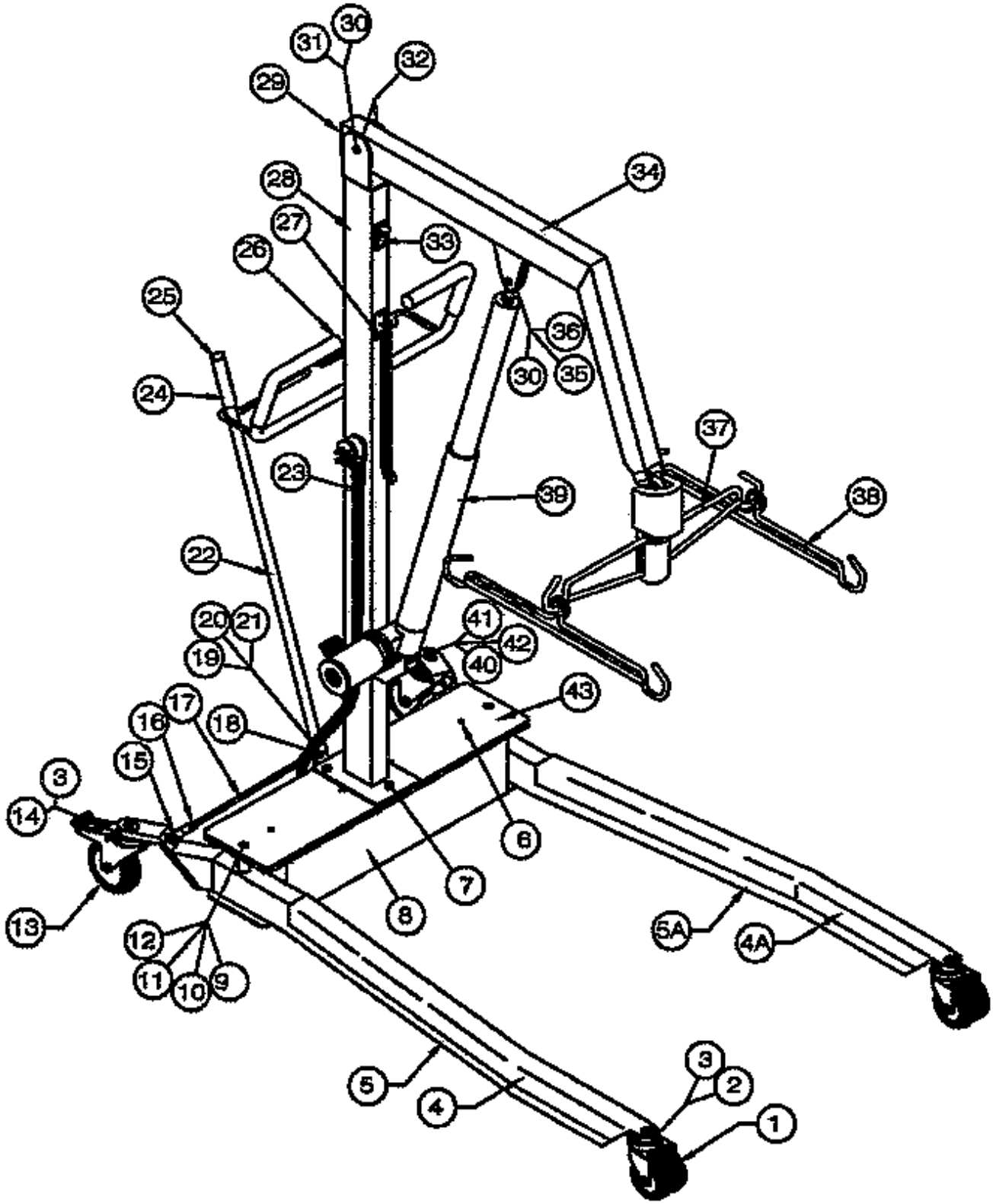



VANDER 450 W/SCALE

# VANDERLIFT 450 W/SCALE

| REF # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | MFG-9-523190 | CASTER 3" NON-LOCK | 2 |
| 2 | MFG-9-238120 | 3/8-16X1.25 FH-SH/SS | 4 |
| 3 | MFG-9-263820 | 3/8-16 NYLON LOCKNUT | 4 |
| 4 | MFG4-900615 | V-L LEG PROTECTORS CLEAR | 2 |
| 5 | MFG-4-200010 | V-L LEG (BLUE) | 2 |
| | MFG-4-100010 | V-L LEG (WHITE) | 2 |
| 6 | MFG-9-225750 | 1/4-20 X 3/4 FH PH | 4 |
| 7 | MFG-9-238100 | 3/8-16 X 1 GR 5 B0LT | 3 |
| *8 | MFG-9-290650 | #6 INTERNAL LOCK/WSH | 2 |
| *7 | MFG-9-293807 | 3/8" SPLIT LOCK WASH | 5 |
| 8 | MFG-4-200021 | V-L BASE/SCALE BLUE | 1 |
| | MFG-4-100021 | V-L BASE/SCALE WHITE | 1 |
| *8 | MFG-6-008000 | 24V CONTROL BOARD | 1 |
| *8 | MFG-9-261024 | #10-24 LOCK NUT | 2 |
| *8 | MFG-9-270463 | 4-40X5/8 SH CAP (SS) | 2 |
| *8 | MFG-9-270625 | 6-32X1/4 BH SH (SS) | 2 |
| *8 | MFG-9-270838 | #8-32 X 3/8" PH-PH | 2 |
| *8 | MFG-9-271075 | #1O-24 X 3/4 MS | 1 |
| *8 | MFG-9-321510 | BATTERY 12 VOLT | 2 |
| *8 | MFG-9-351600 | JUMPERS (BATTERY) | 1 |
| *8 | MFG-9-386630 | FLAG TERM. .250 | 1 |
| *8 | MFG-9-386710 | RING TERMINAL (BLUE) | 2 |
| *8 | MFG-9-387100 | SPADE CONN-MALE (BL) | 1 |
| *8 | MFG-9-570850 | BATTERY PAD (UPPER) | 1 |
| *8 | MFG-9-570860 | BATTERY PAD (LOWER) | 1 |
| *8 | MFG-9-570870 | BOARD PAD | 1 |
| *8 | SEW-6-000089 | BATTERY STRAPS | 1 |
| 9 | MFG-9-250050 | 1/2-13 X 5 1/4 HH G5-LEG | 2 |
| 10 | MFG-9-295040 | WASHER .040/SS | 2 |
| 11 | MFG-9-295062 | WASHER .062/SS | 3 |
| 12 | MFG-9-265008 | 1/2-13 NYLON JAM NUT | 2 |
| 13 | MFG-9-523120 | CASTER 4" LOCKING | 2 |
| 14 | MFG-9-238153 | 3/8-16X 1.5 FH SH/SS | 2 |
| 15 | MFG-6-583650 | CUT TIE ROD ENDS | 2 |
| 16 | MFG-9-263824 | 3/8-24 N.F. NUT-ZN | 6 |
| 17 | MFG-6-000366 | TIE ROD - CHROMED | 2 |
| 18 | MFG-9-583600 | TIE ROD END | 2 |
| 19 | MFG-5-704000 | 1" GREEN SPRING/DANLY | 1 |
| 19A | MFG-6-542211 | .078 THRUST BEARING | 1 |
| 20 | MFG-6-542212 | .060 RACE | 2 |
| 20A | MFG-6-542470 | INDEX ARM-2 | 1 |
| 21 | MFG-6-542575 | INDEX GUIDE BOLT | 1 |

| REF # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| *21A | MFG-9-265010 | 1/2-13 HEX NUT -ZN | 2 |
| 21A | MFG-9-250047 | 1/2-13 X 4 SH CS -SS | 1 |
| 22 | MFG-6-573290 | SHIFT BAR-2 (29") | 1 |
| 23 | MFG-6-000055 | HOSP PLUG W/AC CORD | 1 |
| 25 | MFG-9-633820 | 7/8" END CAP-RUBBER | 1 |
| 26 | MFG-9-621000 | 1" LOCKING PLUG | 2 |
| 27 | MFG-6-008025 | PENDANT SWITCH-CON/B | 1 |
| 28 | MFG-4-200037 | V-L/SCALE TOWER-BLUE | 1 |
| | MFG-4-100037 | V-L/SCALE TOWER-WHITE | 1 |
| *28 | MFG-9-320650 | CORD RESTRAINT | 1 |
| *28 | MFG-9-322039 | VC CORD ASSEM (TAN) | 1 |
| *28 | MFG-9-336450 | E-STOP WIRE HARNESS | 1 |
| *28 | MFG-9-398956 | WIRE 5&6 MICRO SWTCH | 1 |
| *28 | MFG-9-542400 | 1/2" GROMET | 1 |
| 30 | MFG-9-265005 | 1/2-20 NYLON JAM NUT | 2 |
| 31 | MFG-9-250250 | 1/2-20 X 2 1/2 HH | 1 |
| 32 | MFG-9-624110 | BRONZE BUSHING 3/4" | 2 |
| 33 | MFG-9-370690 | EMERGENCY STOP SWTCH | 1 |
| 34 | MFG-4-200070 | LIFT ARM (BLUE) | 1 |
| | MFG-4-100070 | LIFT ARM (WHITE) | 1 |
| 35 | MFG-9-265005 | 1/2-20X 1 1/2 HH | 1 |
| | | | 2 |
| 36 | MFG-4-910130 | COMP/HANGER BAR(GREY) | |
| 37 | MFG-4-910120 | HANGER ROD COMPLETE | 2 |
| 38 | MFG-4-520151 | ACTUATOR, V-L 24V | 1 |
| *38 | MFG-4-930145 | CRANK - EMERGENCY DN | 1 |
| *38 | MFG-9-370660 | MIC SWITCH/DOOR&LIFT | 1 |
| *38 | MFG-9-672020 | PLASTIC MOUNT-MICRO | 1 |
| 39 | MFG-9-238125 | 3/8 X 1 1/4 SH BOLT | 1 |
| 40 | MFG-9-263118 | 5/16-18 HEX NUT | 1 |
| 41 | MFG-9-645500 | HOSE 4 ACT. BUSHING | 1 |
| 42 | MFG-6-000522 | PLASTIC LIDS | 2 |
| 43 | MFG-4-200047 | V-L/S CELL MOUNT-BL | 1 |
| | MFG-4-100047 | V-L/S CELL MOUNT-WHITE | 1 |
| *28 | MFG-4-200057 | V-L/S CELL HSING-BLU | 1 |
| | MFG-4-100057 | V-L/S CELL HSING-WHITE | 1 |
| *44 | MFG-9-238107 | 3/8-16 X 1 FH SH(SS) | 2 |
| 45 | MFG-6-771017 | MAST/SCALE LOAD CELL | 1 |
| * | MFG-6-771007 | MAST/SCALE METER(SS) | 1 |
| *38 | SEW-4-900171 | V-L BOOT (BLK) | 1 |
| * | SEW-6-001048 | SLING/BELT BAG | 1 |
| * | MFG-9-225020 | 3/4 PLASTIC CAPS | 4 |
| * | NOT PICUTRED | | |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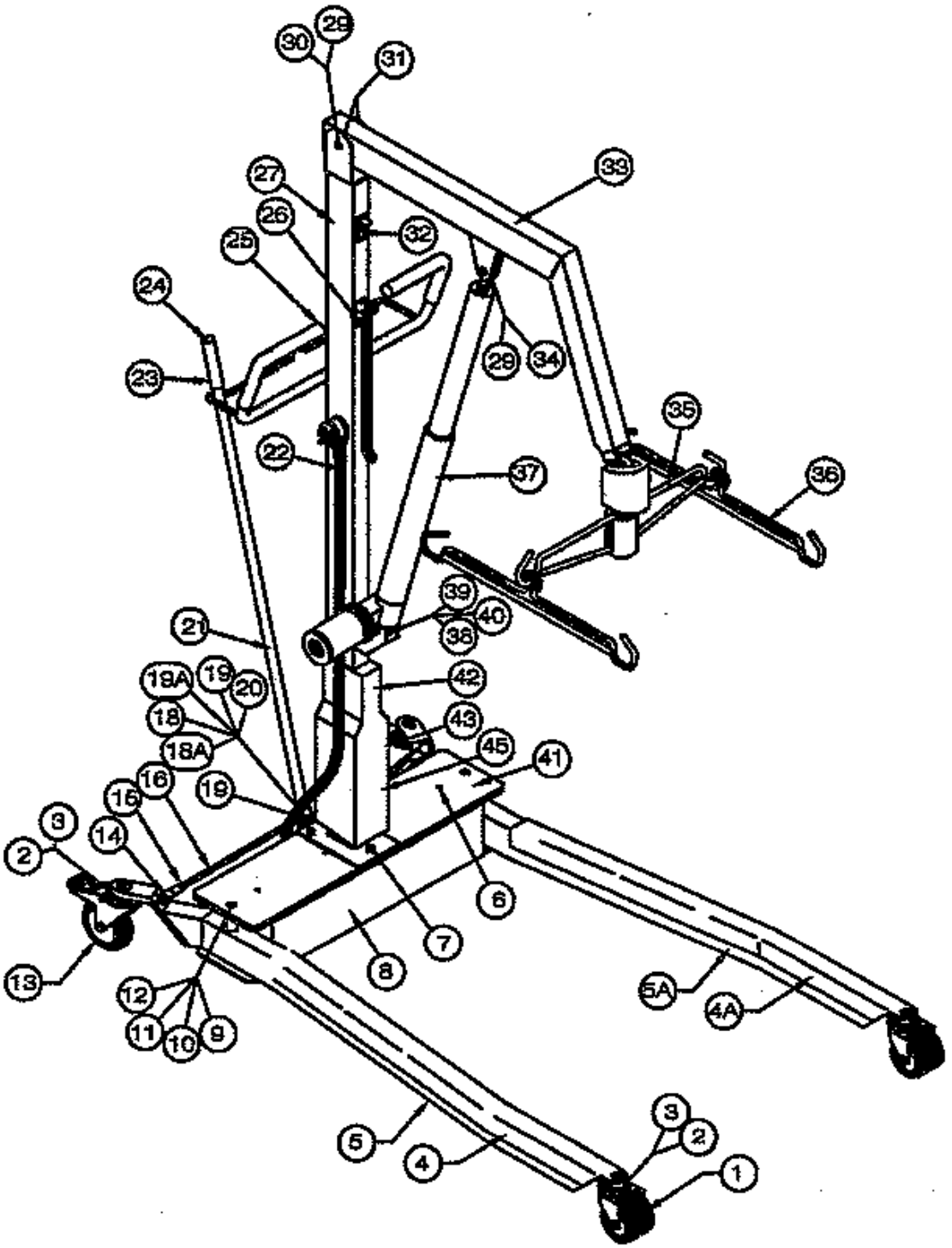
VANDER 600

# VANDERLIFT 600

| REF # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | MFG-9-523190 | CASTER 3" NON-LOCK | 2 |
| 2 | MFG-9-238120 | 3/8-16X1.25 FH-SH/SS | 2 |
| 3 | MFG-9-263820 | 3/8-16 NYLON LOCKNUT | 4 |
| 4 | MFG-4-900617 | 600 LEG PROT (RIGHT) CLEAR | 1 |
| 4A | MFG-4-900616 | 600 LEG PROT (LEFT) CLEAR | 1 |
| 5 | MFG-4-100602 | 600 LEG (RIGHT) WHT | 1 |
| | MFG-4-200602 | 600 LEG (RIGHT) BLUE | 1 |
| 5A | MFG-4-100601 | 600 LEG (LEFT) WHITE | 1 |
| | MFG-4-200601 | 600 LEG (LEFT) BLUE | 1 |
| 6 | MFG-9-225750 | 1/4-20 X 3/4 FH PH | 4 |
| 7 | MFG-9-238100 | 3/8-16 X 1 GR 5 B0LT | 3 |
| *7 | MFG-9-293807 | 3/8" SPLIT LOCK WASH | 5 |
| 8 | MFG-4-100020 | V-L BASE (WHITE) | 1 |
| | MFG-4-200020 | V-L BASE (BLUE) | 1 |
| *8 | MFG-6-008000 | 24V CONTROL BOARD | 1 |
| *8 | MFG-9-270463 | 4-40X5/8 SH CAP (SS) | 2 |
| *8 | MFG-9-270625 | 6-32X1/4 BH SH (SS) | 2 |
| *8 | MFG-9-270838 | #8-32 X 3/8" PH-PH | 2 |
| *8 | MFG-9-271075 | #1O-24 X 3/4 MS | 1 |
| *8 | MFG-9-320650 | CORD RESTRAINT | 1 |
| *8 | MFG-9-321510 | BATTERY 12 VOLT | 2 |
| *8 | MFG-9-351600 | JUMPERS (BATTERY) | 1 |
| *8 | MFG-9-386630 | FLAG TERM. .250 | 1 |
| *8 | MFG-9-386710 | RING TERMINAL (BLUE) | 2 |
| *8 | MFG-9-387100 | SPADE CONN-MALE (BL) | 1 |
| *8 | MFG-9-570850 | BATTERY PAD (UPPER) | 1 |
| *8 | MFG-9-570860 | BATTERY PAD (LOWER) | 1 |
| *8 | MFG-9-570870 | BOARD PAD | 1 |
| *8 | SEW-6-000089 | BATTERY STRAPS | 1 |
| 9 | MFG-9-250050 | 1/2-13 X 5 1/4 HH G5-LEG | 2 |
| 10 | MFG-9-295040 | WASHER .040/SS | 2 |
| 11 | MFG-9-295062 | WASHER .062/SS | 2 |
| 12 | MFG-9-265008 | 1/2-13 NYLON JAM NUT | 2 |
| 13 | MFG-9-523120 | CASTER 4" LOCKING | 2 |
| 14 | MFG-9-238153 | 3/8-16X 1.5 FH SH/SS | 2 |
| 15 | MFG-6-583650 | CUT TIE ROD ENDS | 2 |
| 16 | MFG-9-263824 | 3/8-24 N.F. NUT-ZN | 6 |
| 17 | MFG-4-900605 | 600 TIE ROD-CHROMED | 2 |
| 18 | MFG-9-583600 | TIE ROD END | 2 |
| 19 | MFG-6-000350 | INDEX ARM (ZINC) | 1 |
| 20 | MFG-9-266311 | LOC NUT 5/8-11 | 1 |

| REF # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 21 | MFG-9-592300 | WASHER 5/8" BLK FIBE | 1 |
| 22 | MFG-6-573300 | SHIFT BAR (33 3/4") | 1 |
| 23 | MFG-6-000055 | HOSP PLUG W/AC CORD | 1 |
| | | | |
| 25 | MFG-9-633820 | 7/8" END CAP-RUBBER | 1 |
| 26 | MFG-9-621000 | 1" LOCKING PLUG | 2 |
| 27 | MFG-6-008025 | PENDANT SWITCH-CON/B | 1 |
| 28 | MFG-4-100030 | V-L TOWER (WHITE) | 1 |
| | MFG-4-200030 | V-L TOWER (BLUE) | 1 |
| *28 | MFG-9-322039 | VC CORD ASSEM (TAN) | 1 |
| *28 | MFG-9-336450 | E-STOP WIRE HARNESS | 1 |
| *28 | MFG-9-370650 | POWER CORD (MOTOR) | 1 |
| *28 | MFG-9-398956 | WIRE 5&6 MICRO SWTCH | 1 |
| *28 | MFG-9-542400 | 1/2" GROMMET | 1 |
| 29 | MFG-9-672010 | PLASTIC PLUG 2.5X1.5 | 1 |
| 30 | MFG-9-265005 | 1/2-20 NYLON JAM NUT | 2 |
| 31 | MFG-9-250250 | 1/2-20X2 1/2 HH | 1 |
| 32 | MFG-9-624110 | BRONZE BUSHING 3/4" | 2 |
| 33 | MFG-9-370690 | EMERGENCY STOP SWTCH | 1 |
| 34 | MFG-4-100070 | LIFT ARM (WHITE) | 1 |
| | MFG-4-200070 | LIFT ARM (BLUE) | 1 |
| 35 | MFG-9-250155 | 1/2-20X1 1/2 HH | 1 |
| 36 | MFG-9-295012 | WASHER- 1/2 X 1 O.D. | 2 |
| 37 | MFG-4-910130 | COMP/HANGER BAR(GREY) | 1 |
| 38 | MFG-4-910120 | HANGER ROD COMPLETE | 2 |
| 39 | MFG-4-520151 | ACTUATOR, V-L 24V | 1 |
| *39 | MFG-4-930145 | CRANK - EMERGENCY DN | 1 |
| *39 | MFG-9-290650 | #6 INTERNAL LOCK/WSH | 2 |
| *39 | MFG-9-370660 | MIC SWITCH/DOOR&LIFT | 1 |
| *39 | MFG-9-672020 | PLASTIC MOUNT-MICRO | 1 |
| *39 | SEW-4-900171 | V-L BOOT (BLK) | 1 |
| 40 | MFG-9-238125 | 3/8 X 1 1/4 SH BOLT | 1 |
| 41 | MFG-9-645500 | HOSE 4 ACT. BUSHING | 1 |
| 42 | MFG-9-263118 | 5/16-18 HEX NUT | 1 |
| 43 | MFG-6-000522 | PLASTIC LIDS | 2 |
| * | MFG-9-261024 | #10-24 LOCK NUT | 2 |
| * | SEW-6-001048 | SLING/BELT BAG | 1 |
| * | MFG-9-225020 | 3/4 PLASTIC CAPS | 4 |
| | | | |
| * | NOT PICTURED | | |
| | | OPTIONAL | |
| | MFG-4-401200 | IMS HANGING SCALE | 1 |

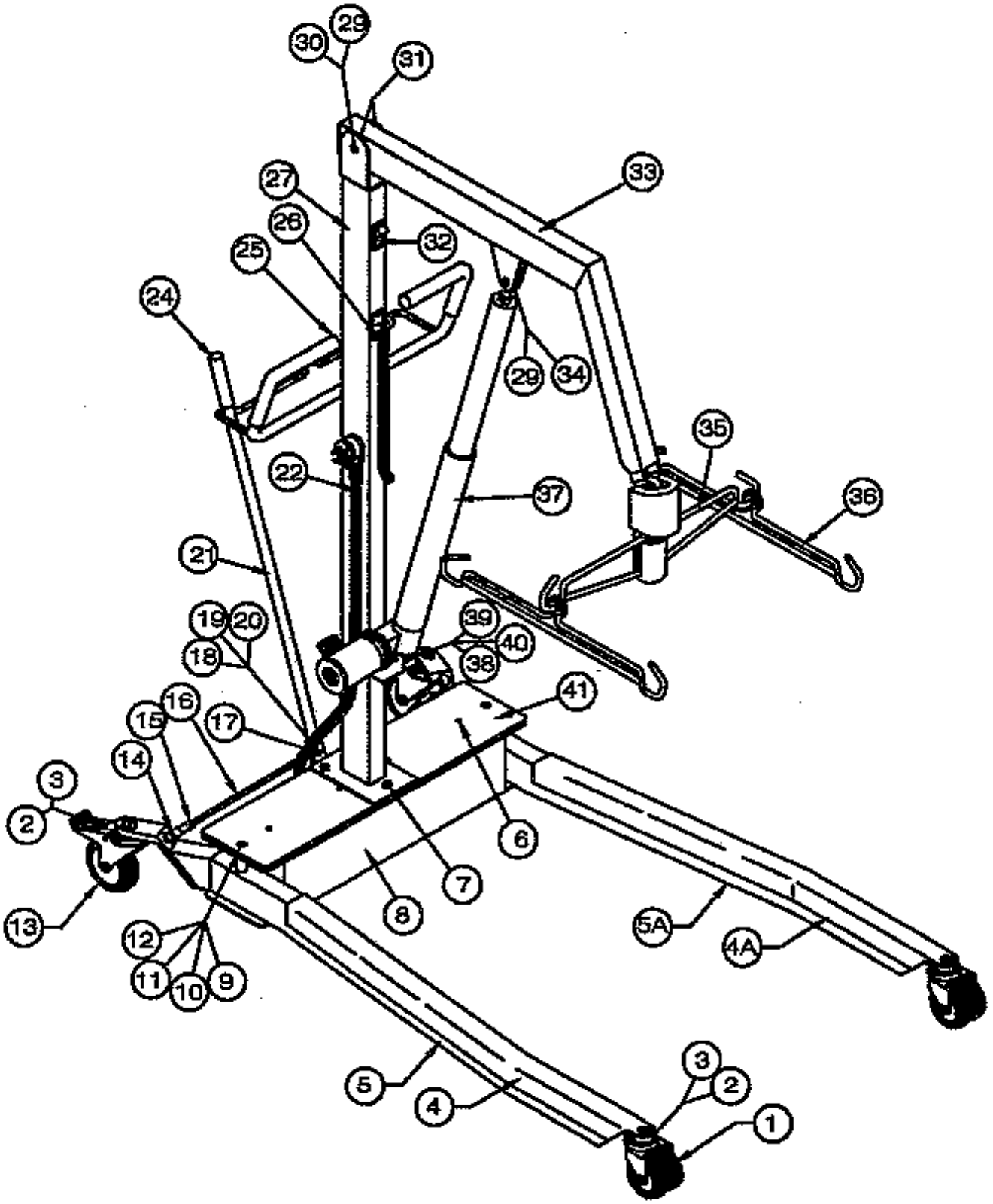



VANDER 600 W/SCALE

# VANDERLIFT 600 W/SCALE

| REF # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | MFG-9-523190 | CASTER 3" NON-LOCK | 2 |
| 2 | MFG-9-238120 | 3/8-16X1.25 FH-SH/SS | 4 |
| 3 | MFG-9-263820 | 3/8-16 NYLON LOCKNUT | 4 |
| 4 | MFG-4-900617 | 600 LEG PROT (RIGHT) CLEAR | 1 |
| 4A | MFG-4-900607 | 600 LEG PROT (LEFT) CLEAR | 1 |
| 5 | MFG-4-200602 | 600 LEG-RIGHT (BLUE) | 1 |
| | MFG-4-100602 | 600 LEG-RIGHT (WHITE) | 1 |
| 5A | MFG-4-200601 | 600 LEG-LEFT (BLUE) | 1 |
| | MFG-4-100601 | 600 LEG-LEFT (WHITE) | 1 |
| 6 | MFG-9-225750 | 1/4-20 X 3/4 FH PH | 4 |
| 7 | MFG-9-238100 | 3/8-16 X 1 GR 5 B0LT | 3 |
| *7 | MFG-9-293807 | 3/8" SPLIT LOCK WASH | 5 |
| 8 | MFG-4-200021 | V-L BASE/SCALE BLUE | 1 |
| | MFG-4-100021 | V-L BASE/SCALE WHITE | 1 |
| *8 | MFG-6-008000 | 24V CONTROL BOARD | 1 |
| *8 | MFG-9-261024 | #10-24 LOCK NUT | 2 |
| *8 | MFG-9-270463 | 4-40X5/8 SH CAP (SS) | 2 |
| *8 | MFG-9-270625 | 6-32X1/4 BH SH (SS) | 2 |
| *8 | MFG-9-270838 | #8-32 X 3/8" PH-PH | 2 |
| *8 | MFG-9-271052 | #10-24-1/2 BH SH-SS | 2 |
| *8 | MFG-9-271075 | #1O-24 X 3/4 MS | 1 |
| *8 | MFG-9-321510 | BATTERY 12 VOLT | 2 |
| *8 | MFG-9-351600 | JUMPERS (BATTERY) | 1 |
| *8 | MFG-9-386630 | FLAG TERM. .250 | 1 |
| *8 | MFG-9-386710 | RING TERMINAL (BLUE) | 2 |
| *8 | MFG-9-387100 | SPADE CONN-MALE (BL) | 1 |
| *8 | MFG-9-542400 | 1/2" GROMET | 1 |
| *8 | MFG-9-570850 | BATTERY PAD (UPPER) | 1 |
| *8 | MFG-9-570860 | BATTERY PAD (LOWER) | 1 |
| *8 | MFG-9-570870 | BOARD PAD | 1 |
| *8 | SEW-6-000089 | BATTERY STRAPS | 1 |
| 9 | MFG-9-250050 | 1/2-13 X 5 1/4 HH G5-LEG | 2 |
| 10 | MFG-9-295040 | WASHER .040/SS | 2 |
| 11 | MFG-9-295062 | WASHER .062/SS | 3 |
| 12 | MFG-9-265008 | 1/2-13 NYLON JAM NUT | 2 |
| 13 | MFG-9-523120 | CASTER 4" LOCKING | 2 |
| 14 | MFG-6-583650 | CUT TIE ROD ENDS | 2 |
| 15 | MFG-9-263824 | 3/8-24 N.F. NUT-ZN | 6 |
| 16 | MFG-4-900605 | 600 TIE ROD-CHROMED | 2 |
| 17 | MFG-9-583600 | TIE ROD END | 2 |
| 18 | MFG-5-704000 | 1" GREEN SPRING/DANLY | 1 |
| 18A | MFG-6-542211 | .078 THRUST BEARING | 1 |
| 19 | MFG-6-542212 | .060 RACE | 2 |
| 19A | MFG-6-542470 | INDEX ARM-2 | 1 |
| 20 | MFG-6-542575 | INDEX GUIDE BOLT | 1 |

| REF # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 20 | MFG-9-250047 | 1/2-13 X 4 SH CS -SS | 1 |
| 20A | MFG-9-265010 | 1/2-13 HEX NUT -ZN | 2 |
| 21 | MFG-6-573290 | SHIFT BAR-2 (29") | 1 |
| 22 | MFG-6-000055 | HOSP PLUG W/AC CORD | 1 |
| 24 | MFG-9-633820 | 7/8" END CAP-RUBBER | 1 |
| 25 | MFG-9-621000 | 1" LOCKING PLUG | 2 |
| 26 | MFG-6-008025 | PENDANT SWITCH-CON/B | 2 |
| 27 | MFG-4-200037 | V-L/SCALE TOWER-BLUE | 1 |
| | | | 1 |
| | MFG-4-100037 | V-L/SCALE TOWER-WHITE | 1 |
| *27 | MFG-9-320650 | CORD RESTRAINT | 1 |
| *27 | MFG-9-322039 | VC CORD ASSEM (TAN) | 1 |
| *27 | MFG-9-336450 | E-STOP WIRE HARNESS | 1 |
| *27 | MFG-9-370650 | POWER CORD (MOTOR) | 1 |
| *27 | MFG-9-398956 | WIRE 5&6 MICRO SWTCH | 1 |
| *27 | MFG-4-200057 | V-L/S CELL HOUSING-BLU | 1 |
| *27 | MFG-4-100057 | V-L/S CELL HOUSING-WHITE | 1 |
| 29 | MFG-9-265005 | 1/2-20 NYLON JAM NUT | 2 |
| 30 | MFG-9-250250 | 1/2-20-2 1/2 HH | 1 |
| 31 | MFG-9-624110 | BRONZE BUSHING 3/4" | 2 |
| 32 | MFG-9-370690 | EMERGENCY STOP SWTCH | 1 |
| 33 | MFG-4-200070 | LIFT ARM (BLUE) | 1 |
| | MFG-4-100070 | LIFT ARM (WHITE) | 1 |
| 34 | MFG-9-250155 | 1/2 X 20 1 1/2" HH | 1 |
| 35 | MFG-4-910130 | COMP/HANGER BAR(GREY) | 1 |
| 36 | MFG-4-910120 | HANGER ROD COMPLETE | 2 |
| 37 | MFG-4-520151 | ACTUATOR, V-L 24V | 1 |
| *37 | MFG-4-930145 | CRANK - EMERGENCY DN | 1 |
| *37 | MFG-9-290650 | #6 INTERNAL LOCK/WSH | 2 |
| *37 | MFG-9-370660 | MIC SWITCH/DOOR&LIFT | 1 |
| *37 | MFG-9-672020 | PLASTIC MOUNT-MICRO | 1 |
| 38 | MFG-9-238125 | 3/8 X 1 1/4 SH BOLT | 1 |
| 39 | MFG-9-263118 | 5/16-18 HEX NUT | 1 |
| 40 | MFG-9-645500 | HOSE 4 ACT. BUSHING | 1 |
| 41 | MFG-6-000522 | PLASTIC LIDS | 2 |
| 42 | MFG-6-771017 | MAST/SCALE LOAD CELL | 1 |
| *44 | MFG-9-238107 | 3/8-16 X 1 FH SH(SS) | 2 |
| 45 | MFG-4-200047 | V-L/S CELL MOUNT-BL | 1 |
| | MFG-4-100047 | V-L/S CELL MOUNT-WHITE | 1 |
| * | MFG-6-771007 | MAST/SCALE METER(SS) | 1 |
| *37 | SEW-4-900171 | V-L BOOT (BLK) | 1 |
| * | SEW-6-001048 | SLING/BELT BAG | 1 |
| * | MFG-9-225020 | 3/4 PLASTIC CAPS | 4 |
| * | | | |
| * | NOT PICTURED | | |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VANDER 1000

# VANDERLIFT 1000

| REF # | PART # | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | MFG-9-523190 | CASTER 3" NON-LOCK | 2 |
| 2 | MFG-9-238153 | 3/8-16X 1.5 FH SH/SS | 4 |
| 3 | MFG-9-263820 | 3/8-16 NYLON LOCKNUT | 4 |
| 4 | MFG-4-900617 | 600 LEG PROT (RIGHT) CLEAR | 1 |
| 4A | MFG-4-900618 | 600 LEG PROT (LEFT) CLEAR | 1 |
| 5 | MFG-4-101002 | 1000 LEG-RH (WHT) | 1 |
| | NFG-4-201002 | 1000 LEG-RH (BLUE) | 1 |
| 5A | MFG-4-101001 | 1000 LEG-LH (WHT) | 1 |
| | MFG-4-201001 | 1000 LEG-LH (BLUE) | 1 |
| 6 | MFG-9-225750 | 1/4-20 X 3/4 FH PH | 4 |
| 7 | MFG-9-238122 | 3/8-16 X 1 1/4 HH-G5 | 3 |
| *7 | MFG-9-293807 | 3/8" SPLIT LOCK WASH | 5 |
| 8 | MFG-4-101020 | 1000 BASE (WHT) | 1 |
| | MFG-4-201020 | 1000 BASE (BLUE) | 1 |
| *8 | MFG-6-008000 | 24V CONTROL BOARD | 1 |
| *8 | MFG-9-270463 | 4-40X5/8 SH CAP (SS) | 2 |
| *8 | MFG-9-270625 | 6-32X1/4 BH SH (SS) | 2 |
| *8 | MFG-9-270838 | #8-32 X 3/8" PH-PH | 2 |
| *8 | MFG-9-271075 | #1O-24 X 3/4 MS | 1 |
| *8 | MFG-9-320650 | CORD RESTRAINT | 1 |
| *8 | MFG-9-321510 | BATTERY 12 VOLT | 2 |
| *8 | MFG-9-351600 | JUMPERS (BATTERY) | 1 |
| *8 | MFG-9-386630 | FLAG TERM. .250 | 1 |
| *8 | MFG-9-386710 | RING TERMINAL (BLUE) | 2 |
| *8 | MFG-9-387100 | SPADE CONN-MALE (BL) | 1 |
| *8 | MFG-9-570850 | BATTERY PAD (UPPER) | 1 |
| *8 | MFG-9-570860 | BATTERY PAD (LOWER) | 1 |
| *8 | MFG-9-570870 | BOARD PAD | 1 |
| *8 | SEW-6-000089 | BATTERY STRAPS | 1 |
| 9 | MFG-9-250058 | 1/2 X 5 1/2 HH G8 | 2 |
| 10 | MFG-9-295040 | WASHER .040/SS | 2 |
| 11 | MFG-9-295062 | WASHER .062/SS | 2 |
| 12 | MFG-9-265008 | 1/2-13 NYLON JAM NUT | 2 |
| 13 | MFG-9-523120 | CASTER 4" LOCKING | 2 |
| 14 | MFG-6-583650 | CUT TIE ROD ENDS | 2 |
| *15 | MFG-9-263824 | 3/8-24 N.F. NUT-ZN | 6 |
| 16 | MFG-4-900605 | 600 TIE ROD-CHROMED | 2 |
| 17 | MFG-9-583600 | TIE ROD END | 2 |
| 18 | MFG-6-000350 | INDEX ARM (ZINC) | 1 |

| REF # | PART # | DESCRIPTION19 | QTY |
|---|---|---|---|
| 19 | MFG-9-592300 | WASHER 5/8" BLK FIBE | 1 |
| 20 | MFG-9-266311 | LOC NUT 5/8-11 | 1 |
| 21 | MFG-6-573300 | SHIFT BAR (33 3/4") | 1 |
| 22 | MFG-6-000055 | HOSP PLUG W/AC CORD | 1 |
| 24 | MFG-9-633820 | 7/8" END CAP-RUBBER | 3 |
| 25 | MFG-9-621000 | 1" LOCKING PLUG | 2 |
| 26 | MFG-6-008025 | PENDANT SWITCH-CON/B | 1 |
| 27 | MFG-4-101030 | 1000 TOWER (WHT) | 1 |
| | MFG-4-201030 | 1000 TOWER (BLUE) | 1 |
| *27 | MFG-9-322039 | VC CORD ASSEM (TAN) | 1 |
| *27 | MFG-9-336450 | E-STOP WIRE HARNESS | 1 |
| *27 | MFG-9-370650 | POWER CORD (MOTOR) | 1 |
| *27 | MFG-9-398956 | WIRE 5&6 MICRO SWTCH | 1 |
| *27 | MFG-9-542400 | 1/2" GROMMET | 1 |
| 29 | MFG-9-265005 | 1/2-20 NYLON JAM NUT | 2 |
| 30 | MFG-9-250250 | 1/2-20-2 1/2 HH | 1 |
| 31 | MFG-9-624110 | BRONZE BUSHING 3/4" | 2 |
| 32 | MFG-9-370690 | EMERGENCY STOP SWTCH | 1 |
| 33 | MFG-4-101070 | 1000 ARM (WHT) | 1 |
| | MFG-4-201070 | 1000 ARM (BLUE) | 1 |
| 34 | MFG-9-250155 | 1/2-20X1 1/2 HH | 1 |
| 35 | MFG-4-910110 | 1000# HANGER BAR/COM | 1 |
| *35 | MFG-9-261024 | #10-24 LOCK NUT | 2 |
| 36 | MFG-4-910100 | 1000# HANGER ROD-COM | 2 |
| 37 | MFG-4-551000 | 1000# ACTUATOR ASSY | 1 |
| *37 | MFG-4-930145 | CRANK - EMERGENCY DN | 1 |
| *37 | MFG-9-290650 | #6 INTERNAL LOCK/WSH | 2 |
| *37 | MFG-9-370660 | MIC SWITCH/DOOR&LIFT | 1 |
| *37 | MFG-9-672020 | PLASTIC MOUNT-MICRO | 1 |
| *37 | SEW-4-900171 | V-L BOOT (BLK) | 1 |
| 38 | MFG-9-238125 | 3/8 X 1 1/4 SH BOLT | 1 |
| 39 | MFG-9-263118 | 5/16-18 HEX NUT | 1 |
| 40 | MFG-9-645500 | HOSE 4 ACT. BUSHING | 1 |
| 41 | MFG-6-000522 | PLASTIC LIDS | 2 |
| * | SEW-6-001048 | SLING/BELT BAG | 1 |
| * | MFG-9-225020 | 3/4 PLASTIC CAPS | 4 |
| * | NOT PICTURED | | |
| | | OPTIONAL | |
| | MFG-4-901145 | 1000 HANGING SCALE | 1 |

# TOOLS NEEDED TO ASSEMBLE YOUR LIFT

¾ “Wrenches (2)
9/16” Wrench
½” Wrench
Phillips head screw driver
Standard Screw Driver
3/8” Wrench
Apply 1-2 drops of Loctite to all nuts and bolts

# ASSEMBLY PROCEDURE

FOLLOW STEPS ONE THROUGH TEN

**Numbers coincide with pictorial on following page**

Step 1) Remove mast with pendant switch, arm assembly, hanger bar with pads, hanger rods and small cardboard box containing batteries, 10 x 24 nut and bolt, 2 1/2" mast bolt and bottom actuator bolt, (3) 3/8” bolts, and (3) 3/8” lock washers.

Step 2) Remove the base assembly from box.

Step 3) Using Phillips screwdriver, remove plastic lids from base assembly.

Step 4) Place mast over base assembly. Connect all wire connectors numbered 1 through 6 and gently guide wires into base being carful not to pinch any wires when the mast is put on the base. The number 4 tan wire plugs directly into the control board inside base at phone jacks.

Step 5) Align the three (3) holes in the mast with the three (3) holes in the base. Apply 1-2 drops of Loctite to the three (3) 3/8” bolts and three (3) 3/8” lock washers; do not tighten them completely at this time.

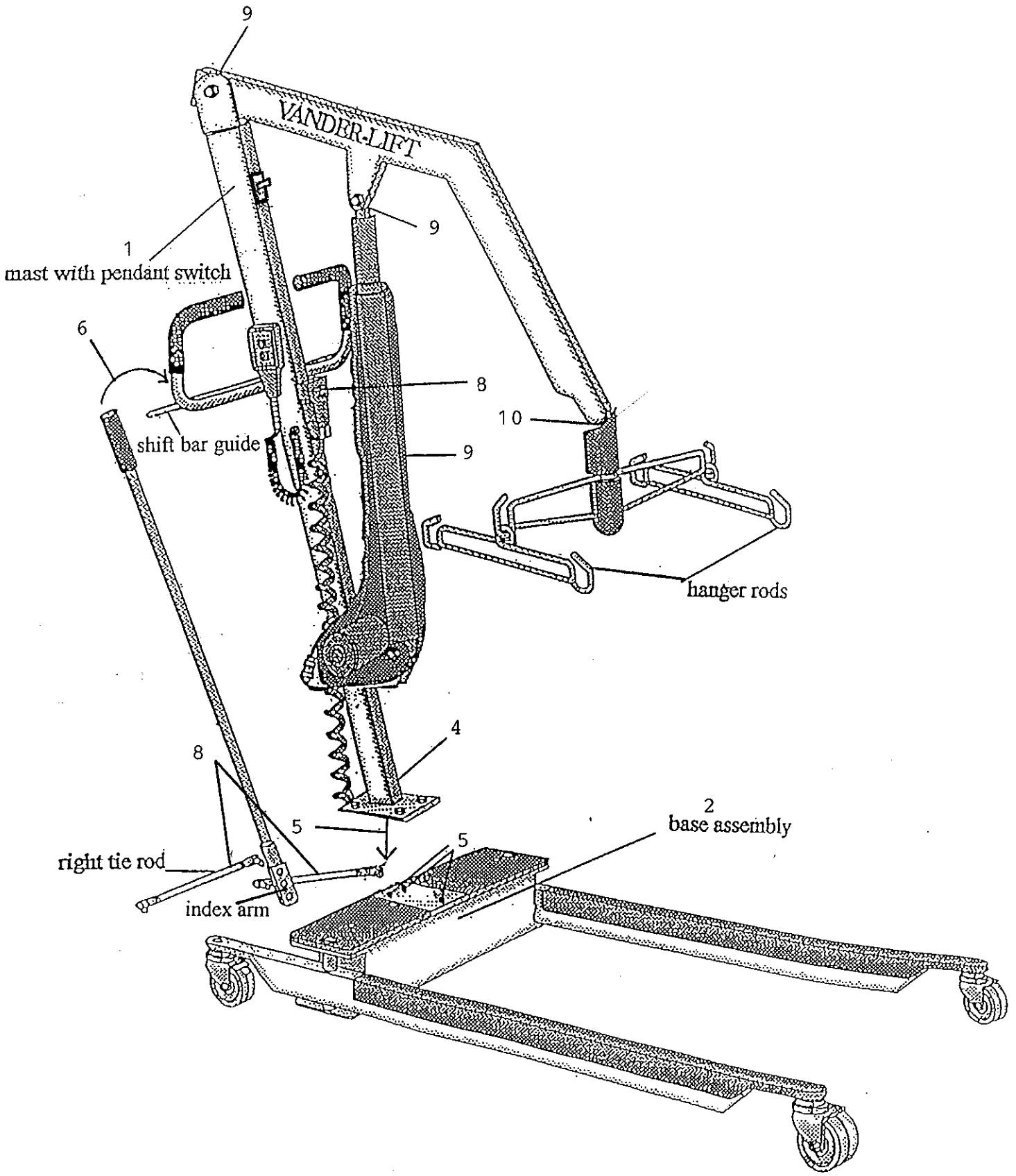
Step 6) Place shift bar through shift bar guide on the right end of the mast over the index arm on the base assembly. (Loosen the three (3) 3/8” bolts on mast if needed.) When shift bar is in place then tighten the three (3) 3/8” bolts in mast firmly.

Step 7) Place the two batteries inside the base and hook together the battery wire connection. Place the two black lids back on base and tighten down.

Step 8) Hang hospital grade plug with coil cord on mast before assembling tie rods to index arm. Left tie rod goes to the bottom hole of the index arm and right tie rod goes to the top hole of the index arm. Place 3/8” lock washers and 3/8” nut to each tire rod and tighten firmly.

Step 9) Place actuator cover on actuator then align upper arm into mast bracket using ½ x 2 ½ HH bolt. At this time apply 1-2 drops of Loctite then tighten the ½-20 Jam nut. Align lower arm bracket holes with top of the actuator, and install 2 3/4" plastic nut covers before inserting ½ - 20 x 1 ½” HH bolt. At this time apply 1-2 drops of Loctite then tighten the ½”-20 Jam nut. Place ¾” plastic caps over nut and bolt on top of the actuator.

Step 10) Place hanger bar with pads on end of arms assembled and insert 10 x 24 bolt and tighten 3/8” nut firmly. Place hanger rods on hanger assembly.


9
VANDER-LIFT
1
mast with pendant switch
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6
8
10
shift bar guide
9
hanger rods
4
8
2
base assembly
5
5
right tie rod
index arm

# TROUBLE SHOOTING GUIDE
# FOR VANDER-LIFT & VERA
# WITH CONTROL BOARD (PART #6-008000)

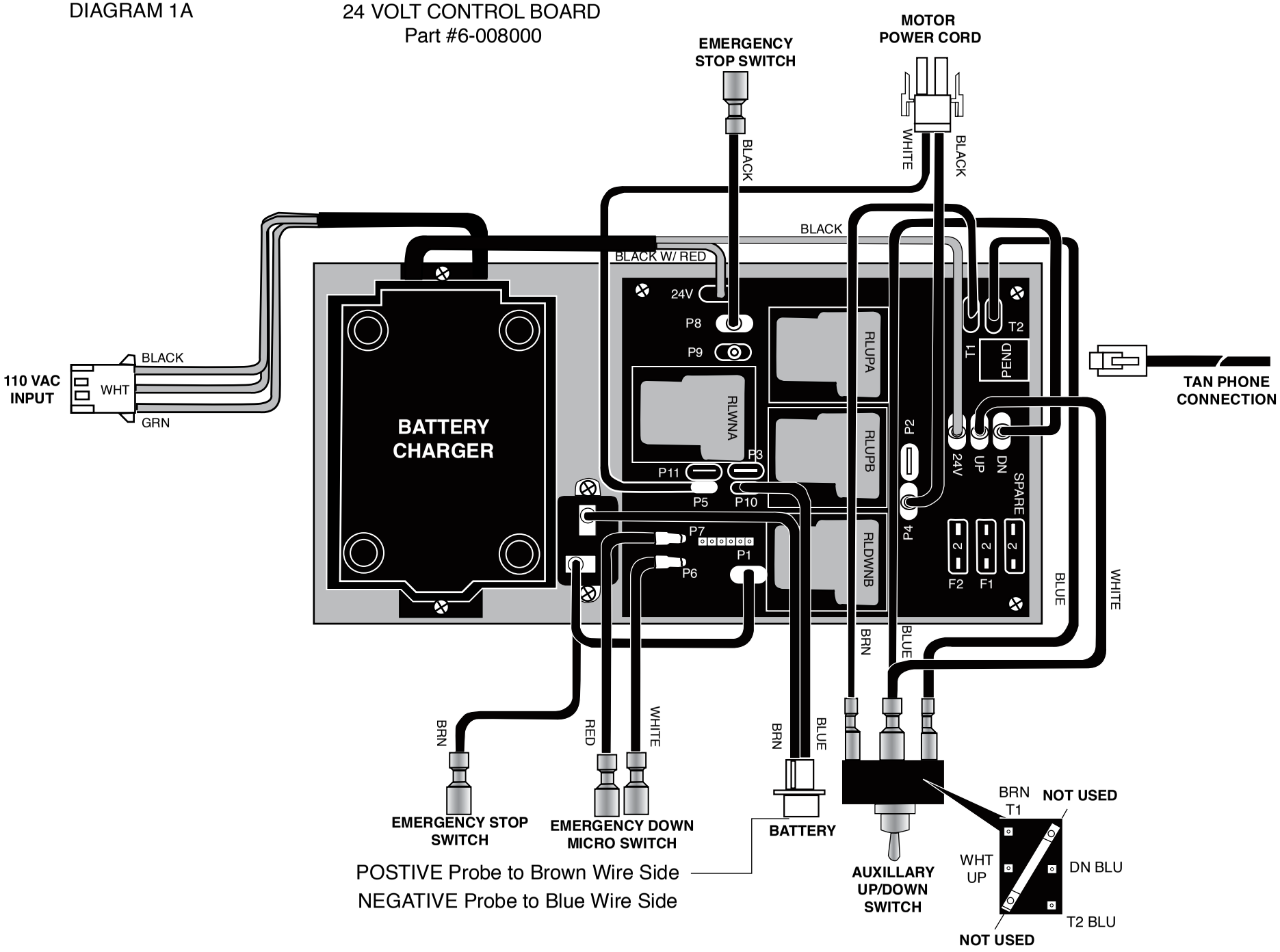
| PROBLEM | POSSIBLE SOLUTION |
|---|---|
| 1. After extensive charging red light comes on after very few lifts | a) Plug unit into live 110AC outlet. Disconnect batteries. Check charger output (per diagram 1A) voltage should read between 27 and 28 volts. If output is below 27 volts, charger is bad. Replace charger.<br><br>b) Check combined battery voltage, voltage should be below 24 volts if red light is on. If voltage is above 24 volts, return lower PC board (logic board) of control board for recalibration (refer to diagram 1B). If below 24 volts, refer to c).<br><br>c) Check individual battery voltage while operating lift (per diagram 1C). Voltage should be equal in both batteries. If there is a difference of greater than 3 volts between batteries, send in the low battery for replacement. |
| 2. If green light is weak or does not come on when you start charger and lift is plugged into live 110AC outlet. | a) Check to make sure the emergency stop switch is not in the "Off" position.<br><br>b) Make disconnection of coil cord from charger system (per diagram 2A). USE EXTREME CAUTION. Check voltage from coil cord by placing probes on black and white wires. If you do not have 110 AC, replace coil cord and plug. If you have 110 AC refer to next step.<br><br>c) Make sure lift is plugged in to live 110V outlet. If light is still not on refer to diagram 1A. Voltage should be between 27 and 28 volts. If below 27 volts replace charger. If voltage is 27 or 28 volts send lower PC board (logic board) of control board back for recalibration (refer to diagram 1B).<br><br>d) Check 2 amp fuse marked F1 to make sure it is not bad. If it is bad, use spare fuse and replace.<br><br>e) Check the emergency down micro switch located under actuator to make sure it is tight up against the bottom of the actuator. If the emergency down micro switch is tight, bypass micro switch by connecting #5 & #6 wires off board in base. If light then operates, replace micro switch.<br><br>f) If every step is checked and everything is working, replace hand control. |
| 3. Handhold control works, but auxiliary up/down switch does not. | a) Check connections to switch. If all connections are good replace switch. |
| 4. The actuator goes up and down, but makes an unusual noise within. | a) Replace actuator. |

## Trouble Shooting Guide for Vander-Lift & Vera (con't)

| | |
|---|---|
| 5. Lift continuously runs after releasing hand control and/or auxiliary switch. | a) Examine hand control for signs of wear, making sure the buttons are operating properly. If hand control is faulty, replace. If hand control is operating correctly, refer to next step.<br><br>b) Remove pendant switch from mast using phillips screwdriver. Remove black lid from base in order to have access to control board. Unplug tan wire from position #4 (phone connection). Plug hand control directly into control board at position #4 (phone connection). Try operating the lift up and down. If lift operates properly, replace tan wire. If the lift is continuing to malfunction, replace top PC (relay board) of control board (refer to diagram 5B) |
| 6. Lift goes up but will not go down using hand control or auxiliary switch. | a) Check the emergency down micro switch located under actuator to make sure it is tight up against the bottom of the actuator. If the emergency down micro switch is tight, bypass micro switch by connecting #5 & #6 wires off board in base. If lift then operates, replace micro switch.<br><br>b) Check 2 amp fuse on control board marked F1. If fuse is bad, replace with spare.<br><br>c) If lift is still not operating correctly, replace top PC board (relay board) of control board (refer to diagram 5B). |
| 7. Lift goes down but will not go up using hand control or auxiliary switch. | a) Check fuse on control board marked F2. If fuse is bad, replace with spare.<br><br>b) If lift is still not operating correctly, replace top PC board (relay board) of control board. Be careful to properly align top portion to control board. Refer to diagram 5B for wire locations. |
| 8. When either hand control or auxiliary switch actuates relays, but actuator does not go up or down. | a) Check connections of the motor power cord underneath actuator cover and inside base for 24 volt (per diagram 8A).<br><br>b) If batteries are good, replace top PC (relay board) of control board (refer to diagram 5B). |
| 9. When attempt is made to operate lift with either the hand control or the auxiliary switch and buzzing noise is heard from within the base. | a) Check charging system as per 1a). If charging system is working, charge the unit for 12 hours. If problem persists, check batteries per 1b). |
| 10. Lift will not operate up or down using hand control or auxiliary switch. | a) Refer to steps 1a) and 1b).<br><br>b) Make sure emergency stop switch is in "On" position.<br><br>c) Refer to step 8a).<br><br>d) Remove black lid on base in order to have access to control board. Remove white wire at post marked "UP" and plug it into post marked P2". Remove blue wire from post marked "DN" and plug it into post marked "P11". The lift should now operate using the auxiliary switch only. The procedure described in this section (10d) should only be used in case of emergency and you must replace the control board as soon as possible. |

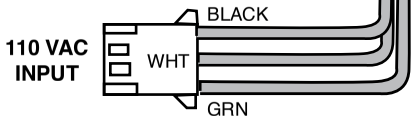
DIAGRAM 1A

24 VOLT CONTROL BOARD
Part #6-008000



## DIAGRAM 1B

1. Remove black lids using Phillips screwdriver.
2. Unplug & remove batteries.
3. Using 5/8" wrench, remove auxiliary switch.
4. Remove tan wire connection #4 from phone jack on control board.
5. Remove control board from base.
6. Remove top PC board (relay board).
   To remove top PC board, while pressing down on white pegs, lift top PC board teach corner.
7. Unplug wires from base at connection numbers on through six.
8. Remove remaining four connections noted on diagram.




9. Top PC board (relay board) should be completely disconnected & removed
10. Remove wires from lower PC board (logic board), #7 through #12 as per diagram.
11. With Phillips screwdriver remove 4 Phillips screws located one at each corner and remove old lower PC board (logic board).
12. Screw down new lower PC board (logic board), careful not to tighten to tight
13. Replace connections #7 through #12 being very careful not to press hard when making connections.
14. Put the new top PC board (relay board) on white pegs. Carefully align white pegs and six gold pegs.
    *Note diagram
15. Replace all connections previously disconnected.
16. Put control board back into lift base being careful with wire connections.
17. Reinsert auxiliary switch into back of base. Tighten with 5/8" wrench.

## 24 VOLT CONTROL BOARD
Part #6-008000
Lower PC (Logic Board)
Part #9-378100

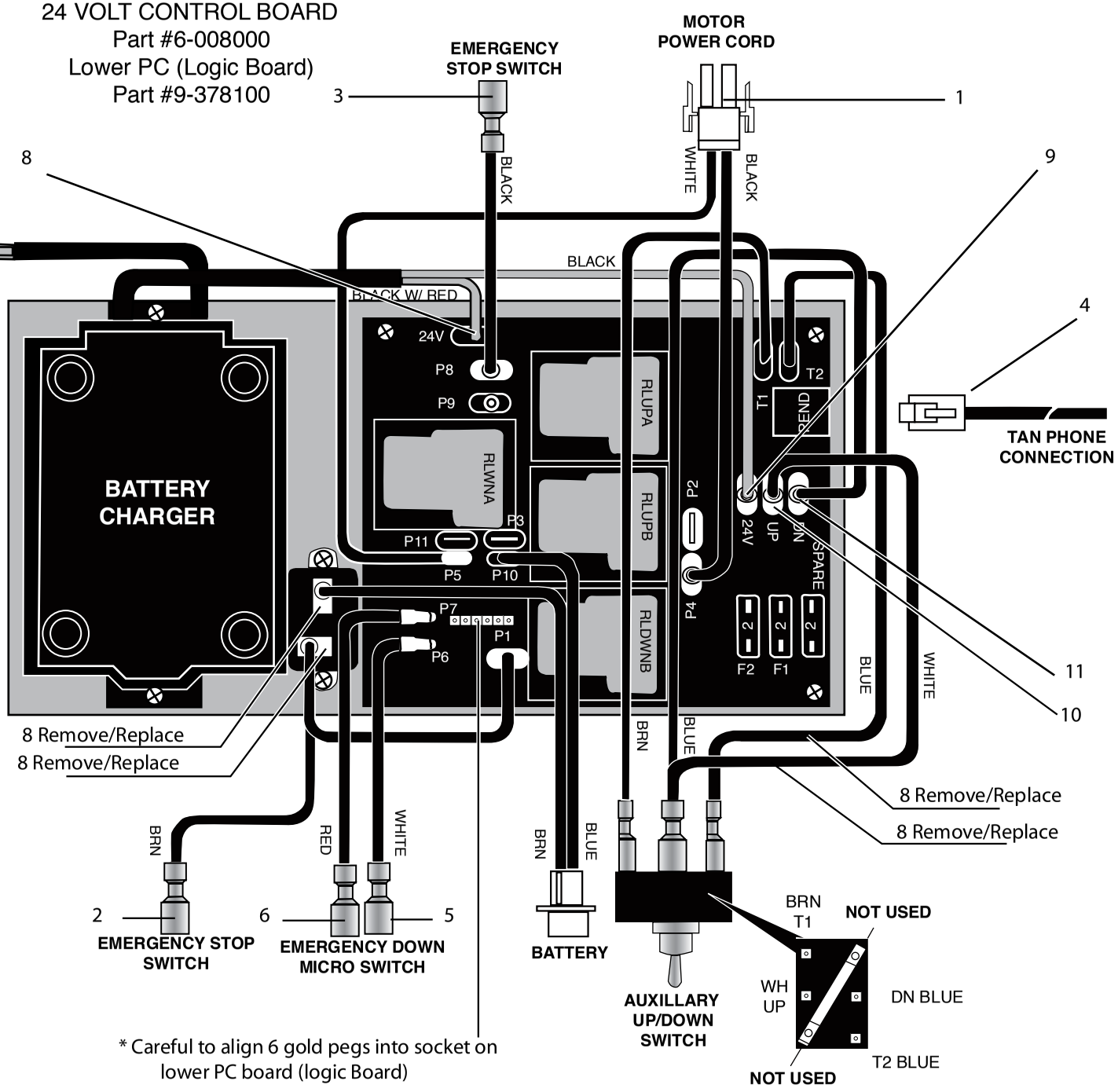


Diagram 1C

(2) 12 VOLT BATTERIES
Part #9-321510

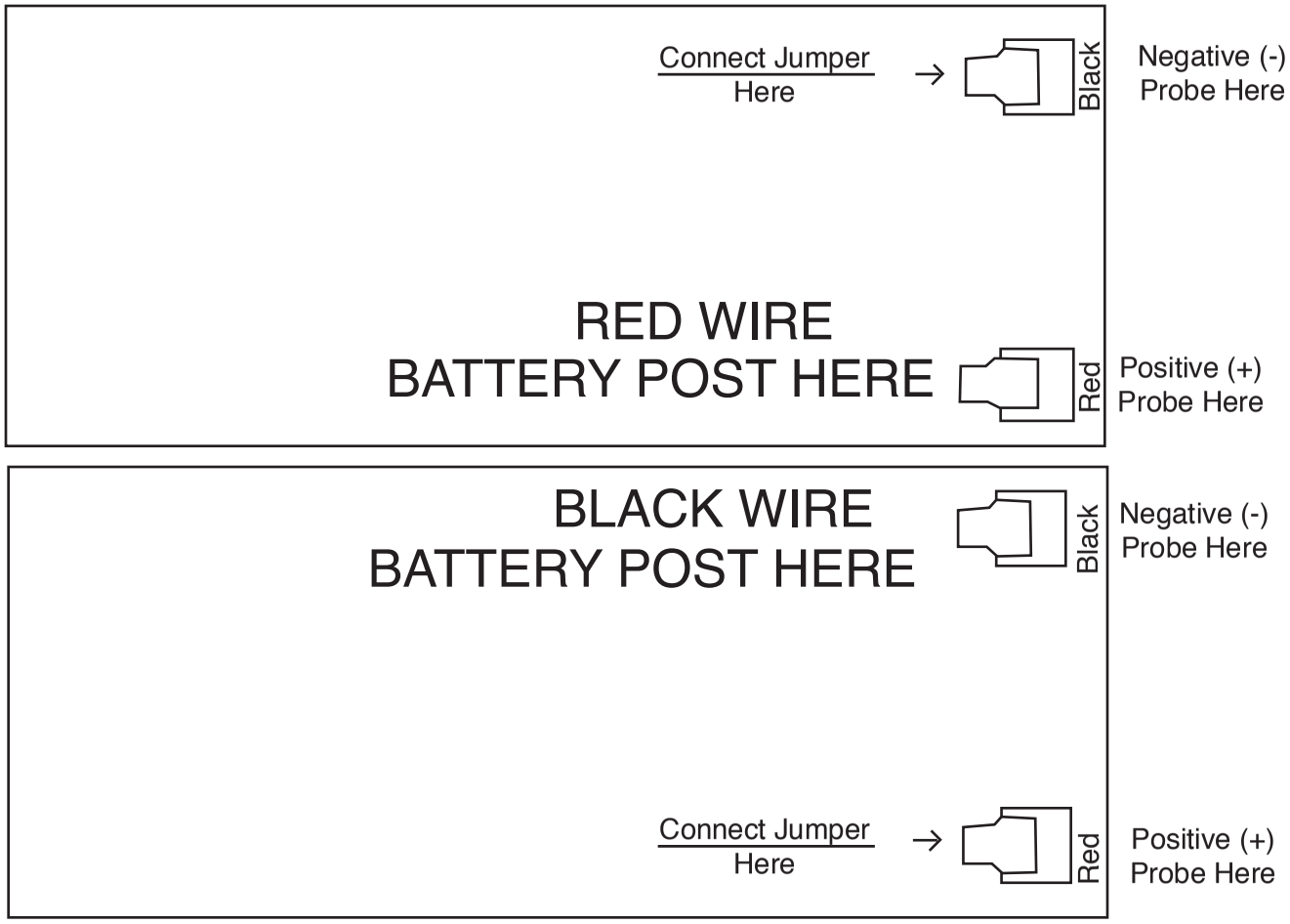
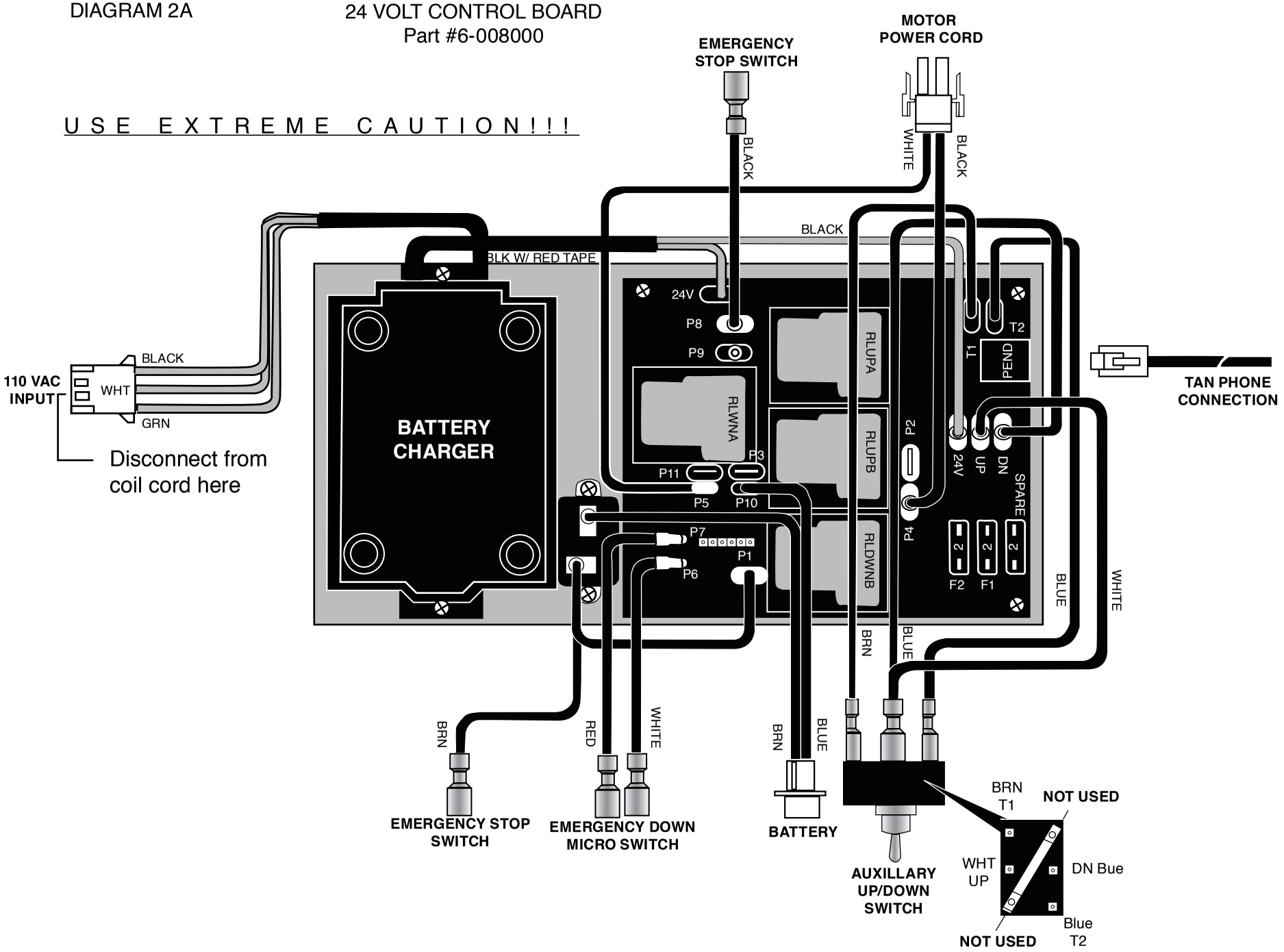


DIAGRAM 2A

24 VOLT CONTROL BOARD
Part #6-008000

U S E  E X T R E M E  C A U T I O N ! ! !



## DIAGRAM 5B

1. Remove black lids using Phillips screwdriver.
2. Unplug & remove batteries.
3. Using 5/8" wrench, remove auxiliary switch.
4. Remove tan wire connection #4 from phone jack on control board.
5. Remove control board from base.
6. Remove top PC board (relay board).
   To remove top PC board, while pressing down on white pegs, lift top PC board teach corner.
7. Unplug wires from base at connection numbers on through six.
8. Remove remaining four connections noted on diagram.

9. Top PC board (relay board) should be completely disconnected & removed
10. Put the new top PC board (relay board) on white pegs. Carefully align white pegs and six gold pegs.
    *Note diagram
11. Replace all connections previously disconnected.
12. Put control board back into lift base being careful with wire connections.
13. Reinsert auxiliary switch into back of base. Tighten with 5/8" wrench.





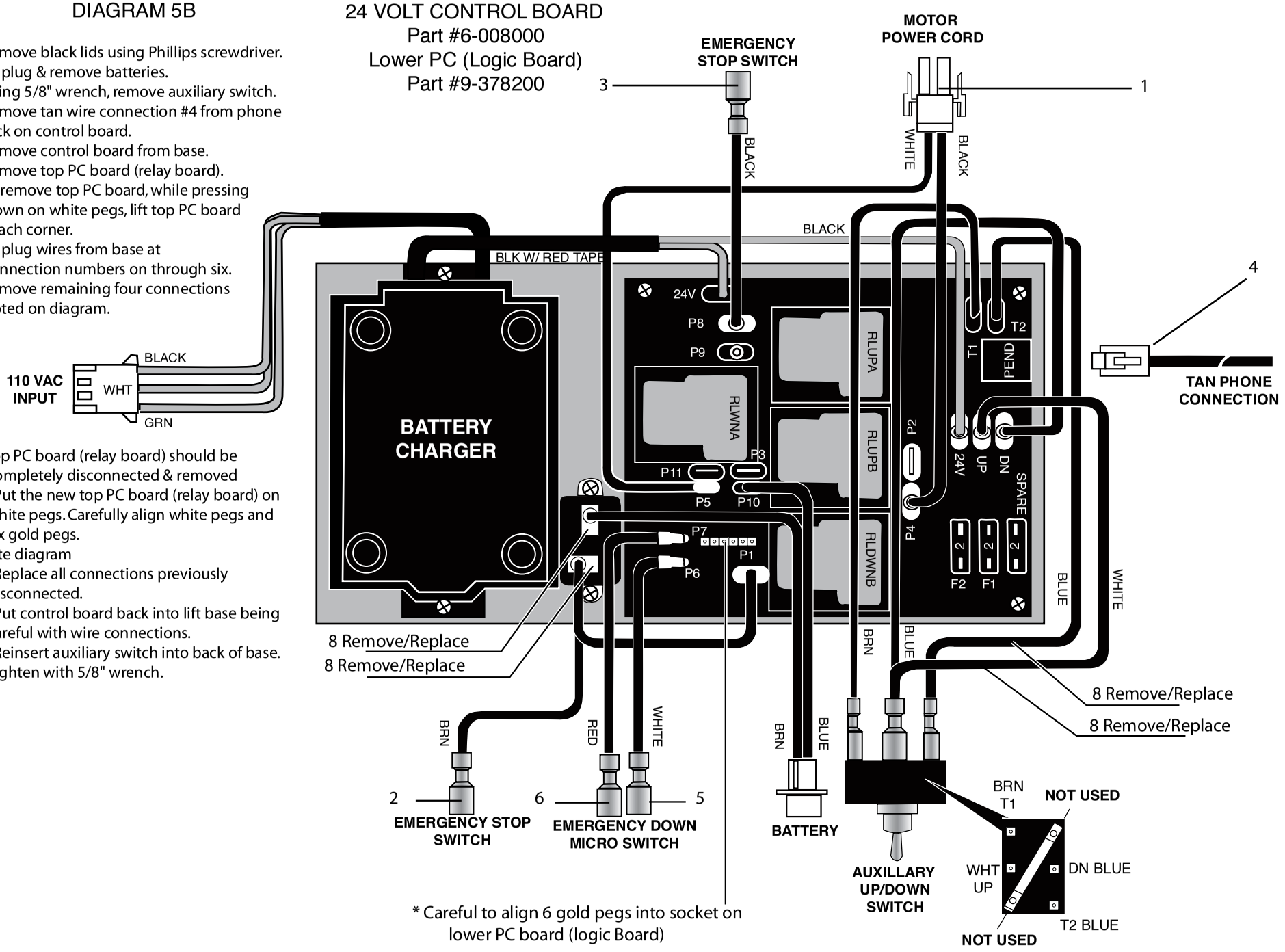
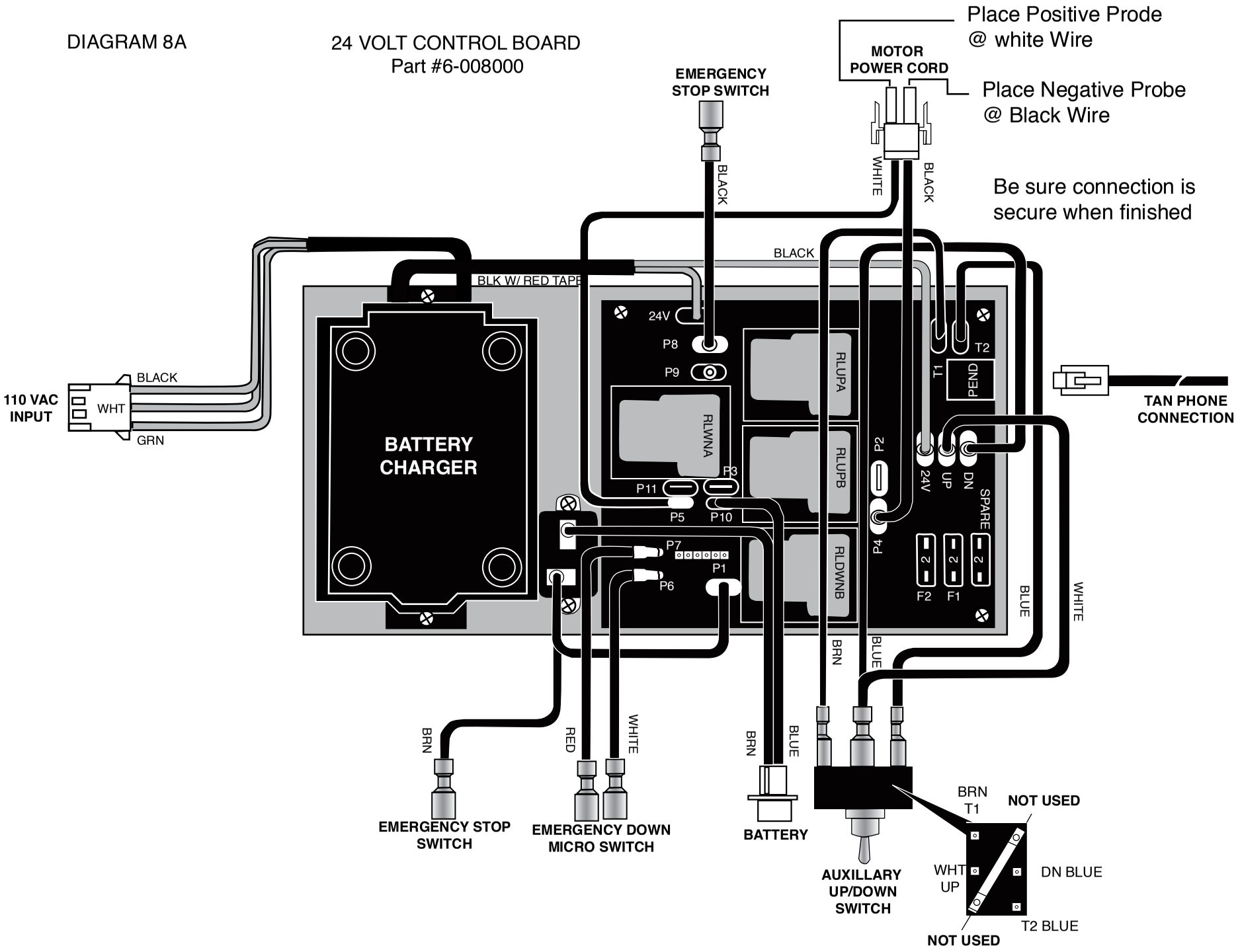


DIAGRAM 8A

24 VOLT CONTROL BOARD
Part #6-008000



## MONTHLY VANDER-LIFT™ SLING INSPECTION CHECKLIST

INSTRUCTIONS: All slings in the facility must be checked monthly. Slings that are damaged or excessively worn must be removed from service and replaced with undamaged slings. Check each blank as that item is inspected. Note the date inspected, the initials of the nurse or professional rehabilitation department staff member who performed the inspection, and action taken, if any, in the "CORRECTIVE ACTION" column.

**YEAR** _____

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | CORRECTIVE ACTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Total number of slings. | | | | | | | | | | | | | |
| Is loose and/or missing stitching present? | | | | | | | | | | | | | |
| On slings with safety belts, does Velcro or plastic connector fasten securely? | | | | | | | | | | | | | |
| Are tears present? | | | | | | | | | | | | | |
| Is excessive wear present? | | | | | | | | | | | | | |
| Is color fading on stabilizing handles?* | | | | | | | | | | | | | |
| Is the padding inside the leg straps smooth?** | | | | | | | | | | | | | |

*If the color is fading on the stabilizing handles, this indicates the sling is being laundered with bleach or with a harsher detergent than is recommended. The sling must be removed from service immediately and discarded as bleach or harsh detergent can weaken the fabric and stitching.
**If the padding inside the leg straps is bunched (no longer smooth), this indicates the sling has been dried in a hot dryer. The sling must be removed from service immediately and discarded as too much heat can damage the sling.

## MONTHLY VANDER-LIFT™ INSPECTION CHECKLIST

INSTRUCTIONS: Use one page for each VANDER-LIFT™. Check each blank as that item is inspected. Note date inspected, initials of maintenance staff member who performed inspection and repairs or adjustments made in the "COMMENTS" column.

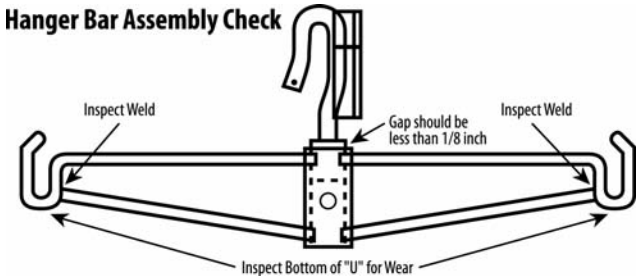
**Serial Number of Lift** _____ **Year** _____

| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Check nuts & bolts for tightness | | | | | | | | | | | | | |
| Inspect welds for cracks, rusting & damage | | | | | | | | | | | | | |
| **Inspect hanger bar welds & tolerance** (see diagram below) | | | | | | | | | | | | | |
| Remove lids & inspect wire connections | | | | | | | | | | | | | |
| Check casters for tightness/lint | | | | | | | | | | | | | |
| Check battery voltage while lift is in operation* | | | | | | | | | | | | | |
| Check battery charger output (27.6 volts + or- .5 volts) | | | | | | | | | | | | | |

*13.2 volts if fully charged, approx. 12.0 volts if partially discharged (+ or - .5 volt). If voltage decreases by 4 – 5 volts, change the battery.

HANGER ROD DIAGRAM

Please follow the maintenance and inspection procedures outlined in the product manuals and record accordingly. Based on institutional average usage data, Vancare recommends that all lifts be replaced every ten years or sooner based upon the facilities usage and the findings during regular use, maintenance and inspections.




Verify grommets and hanger rods are present and in working condition.

## TOOLS NEEDED FOR QUARTERLY MAINTENANCE CHECK

¾ "Wrenches (2) 9/16 "Wrench
½ "Wrench AC/DC Volt Meter
Phillips Head Screw Driver
Apply 1-2 drops of Loctite to all nuts and bolts

## QUARTERLY MAINTENANCE

1. Check all nuts and bolts for tightness. If loose, apply 1 or 2 drops of Loctite # 271.

2. Visually inspect welds for cracks and/ or rusting.

3. Check hanger assembly (per diagram.) (VANDER-LIFT ONLY)

4. Check hanger rods (per diagram) Gromets installed & hanger rod clips installed.

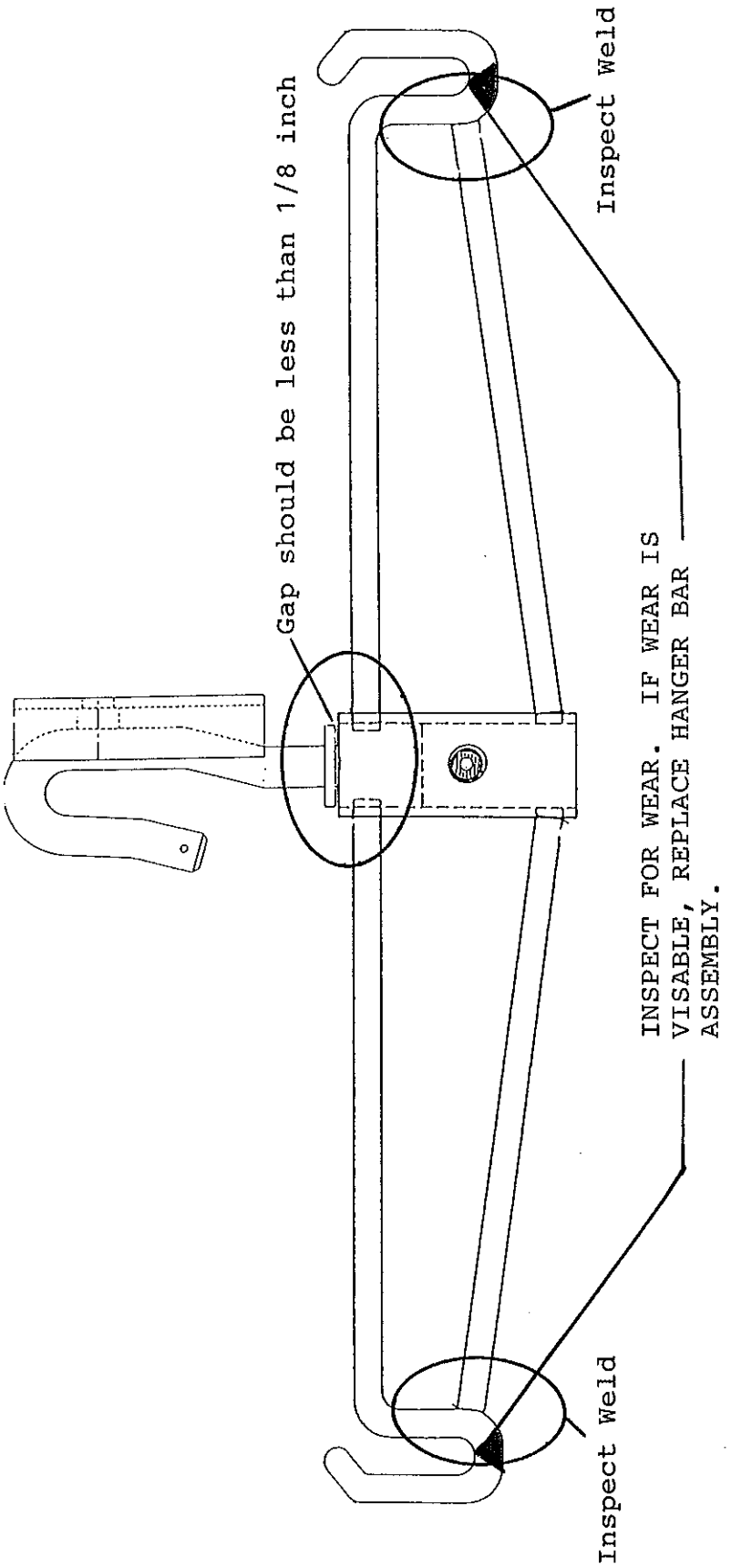
5. Remove lids and visually inspect wire connections.
6. Check batteries for voltage (minimum 25 volt). Check each battery for voltage (should be equal). If more then 3 volts difference replace low battery. This should be done under load.

7. Check battery charger for output (26+ volts, maximum output 28 volts)

## ANNUAL MAINTENANCE

(All of the above quarterly maintenance in addition to the items listed below)

Apply 1.25% of weight capacity to lift and inspect for cracked or weak welds and any irregular deformation of lift and lift attachments.


Inspect Weld
Gap should be less than 1/8 inch
INSPECT FOR WEAR. IF WEAR IS VISABLE, REPLACE HANGER BAR ASSEMBLY.
Inspect Weld